

1 ABSTRACT OF THE DISCLOSURE

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3 An endoscopic surgical instrument includes a flexible tube, a
4 grasping and fastening end effector coupled to the distal end of
5 the tube, and a manual actuator coupled to the proximal end of the
6 tube. The manual actuator is coupled to the end effector by a
7 plurality of flexible cables which extend through the tube. The
8 tube contains a lumen for receiving a manipulable endoscope and
9 the end effector includes a passage for the distal end of the
10 endoscope. The end effector has a store for a plurality of male
11 fastener parts, a store for a plurality of female fastener parts,
12 a rotatable grasper, a rotatable fastener head for aligning a
13 female fastener part and a male fastener part with tissues
14 therebetween, and a firing member for pressing a male fastener
15 part through tissues grasped by the grasper and into a female
16 fastener part. According to a presently preferred embodiment the
17 overall diameters of the flexible tube and the end effector (when
18 rotated to the open position) do not exceed approximately 20mm so
19 that the instrument may be delivered transorally to the fundus of
20 the stomach. The manual actuator is provided with a lock-out
21 feature which prevents firing male fastener parts before the
22 fastener head is closed. The instrument is advantageously
23 utilized in a fundoplication procedure.